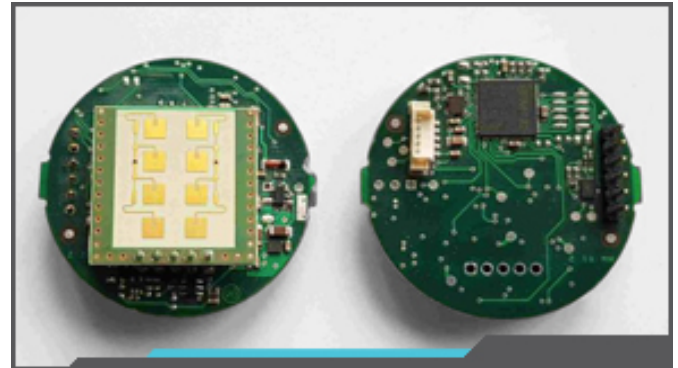




24 GHz radar sensor pcb

SD.201.01

- Motion detection
- Directional sensing
- 80 x 40 deg. beam width
- Target list output
- Interference suppression
- Configurable detection modes
- UART and I2C control
- Electronic output 3.3 V Level
- Optional IP 67 enclosure



SD.201.01 Specifications

Transit frequency	24.05 – 24.25 ETSI 300/440 compliant
Beamwidth antenna	40x80 deg.
Output power	+20dBm EIRP
Detection output	+3.3V Level, configurable polarity
Serial output	Target list, UART 3.3V Level
Update rate	40ms ... 500ms
Signal processing	FFT
Detection range	25 meter for pedestrians / 50 meter for vehicles
Min. reponsetime	65ms @ standard sample rate 4000Hz
Speed range	0.1km/h... 120km/h
Dimensions	44 mm diameter / 20 mm height including radar module
DCsupply	+5.5..... 16VDC
Current consumption	50mA @ 5.5VDC
Connector	6 pin 2.54mm Header for configuration via USB
Operating temperature	-40° to +85° Celsius

Order information	SD20101
Options	SD 201.02 with FTDI connector
	IP 67 Case: R 50

PIN	Connector J1	
1	VCC	+5.5V...16VDC
2	GND	
3	I2CSCL	UART RX option, +3.3V Level
4	I2CSDA	UART TX option, +3.3V Level
5	Detection output	+3.3V Level



PIN	Connector J2	
1	GND	
2	NC	
3	NC	
4	UART RX	+3.3V Level
5	UART TX	+3.3V Level
6	NC	